ASP-HTD

HDMI to DVI & Audio Converter

User Manual

Manual Number: 100901

Full HD 1080 WUXGA 1920 x 1200

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

HDCP HIGH-DEFINITION CONTENT PROTECTION

dvi digital visual interface

RoHS Compliance

FC CE

Aurora Multimedia

Safety and Notice

The ASP-HTD HDMI to DVI & Audio Converter has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the ASP-HTD should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

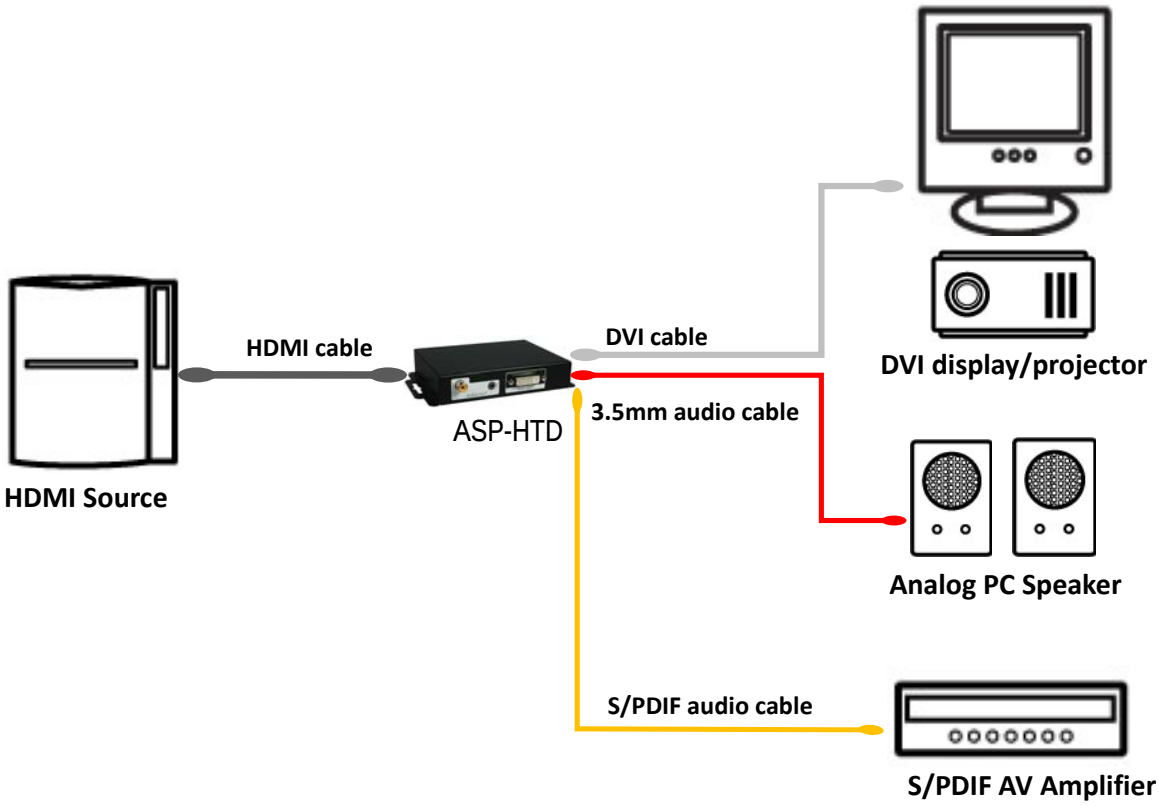
- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

Warning!

This device is served purely for conversion between video formats.
This device CANNOT convert the input/output video resolutions.

Introduction

This handy device provides an easy and instant approach for converting digital HDMI to digital video (DVI-D) and both digital audio (S/PDIF) and analog stereo audio. With this module, HDMI based devices such as Blu-ray Disc players, PS3, DVD players, camcorders, or set-top boxes can readily connect to your PC LCD monitor and PC speakers at lowest cost. This device also enables users to connect full digital video and audio to DVI enabled monitor and S/PDIF equipped audio receiver and amplifier, and make the highest compatibility to your home theater devices.



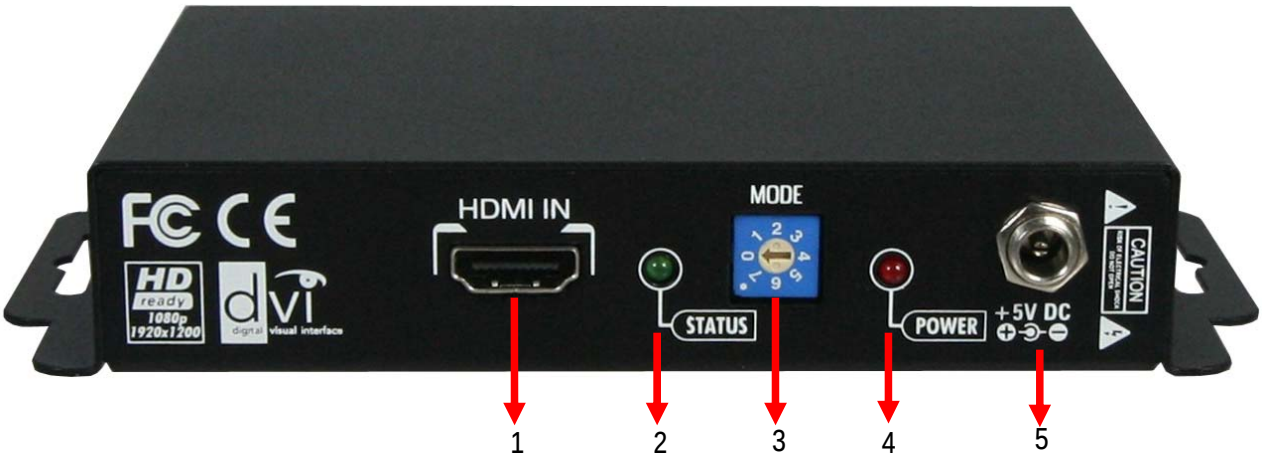
Features

- HDMI 1.2a compatible
- Fully HDCP compliant
- DVI video up to 165MHz
- Coaxial S/PDIF audio output
- Stereo analog audio output
- Front panel LED indicators
- Easy installation

Specifications & Package Contents

Technical		ASP-HTD
Role of usage		Digital-to-Digital format converter
HDMI compliance		HDMI 1.2a
DVI compliance		DVI 1.1
Video Bandwidth		Single-link 165MHz [4.95Gbps]
Video support		Up to 1080p60, WUXGA [1920x1200@60Hz], UXGA [1600x1200@60Hz]
Audio support		Stereo audio
Output TMDS signal		1.2 Volts [peak-to-peak]
Output DDC signal		5 Volts [peak-to-peak, TTL]
ESD protection		[1] Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge] [2] Core chipset — ±8kV
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
Input		1x HDMI
Output		1x DVI 1x RCA digital audio 1x 3.5mm analog audio
HDMI connector		Type A [19-pin female]
DVI connector		DVI-I [29-pin female digital only]
RCA connector		Coaxial S/PDIF digital audio [PCM 48kHz]
3.5mm connector		Analog stereo audio
Control Switch		8-level rotary switch for audio & EDID settings
Mechanical		**ASP-HTD**
Housing		Metal enclosure
Dimensions [L x W x H]	Model	88 x 157 x 26mm [3.5” x 6.2” x 1”]
	Package	175 x 265 x 80mm [6.9” x 10.4” x 3.1”]
	Carton	450 x 370 x 300mm [1’6” x 1’3” x 1’]
Weight	Model	355g [13oz]
	Package	650g [1.4 lbs]
Fixedness		Wall-mounting case with screws Interlocking power jack to prevent power loose
Power supply		5V 2A DC
Power consumption		4 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]
Package Contents		1x ASP-HTD 1x 5V power supply unit 1x User Manual

Front Panel

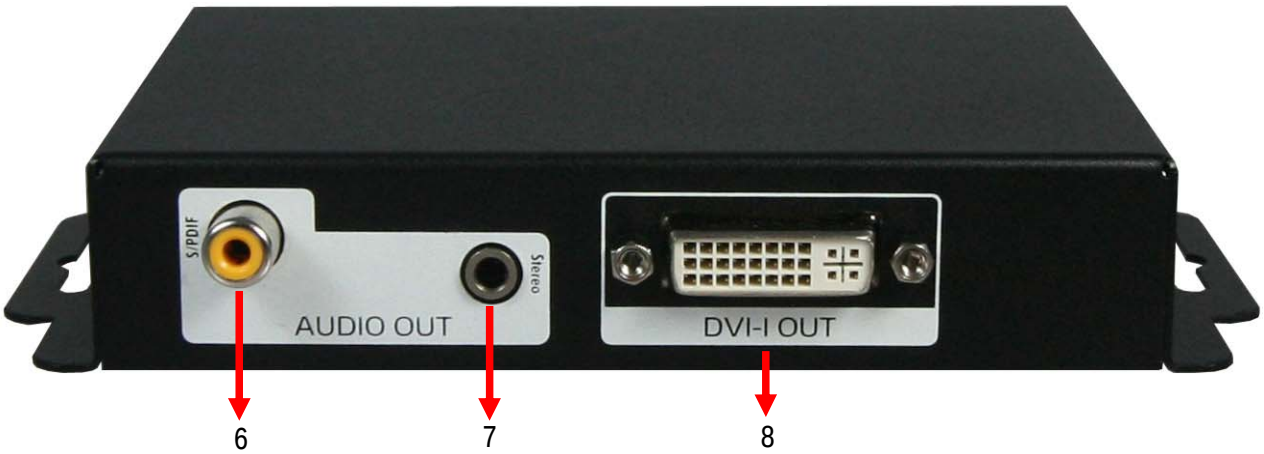


1. HDMI IN: connect to an HDMI source device
2. STATUS: Status indicator
   [Normal operation] – lights up means the HDMI device is connected
   [EDID learning mode] – lights off means the start of EDID learning mode; flashes means the learning the EDID from connected display; lights up means the completion of the EDID learning
3. MODE: 8-level rotary switch for audio and EDID settings

0 = Pair 1 of 7.1ch analog audio output
1 = Pair 2 of 7.1ch analog audio output
2 = Pair 3 of 7.1ch analog audio output
3 = Pair 4 of 7.1ch analog audio output
4 = Reserved
5 = Reserved
6 = Restore Default EDID
7 = Learn EDID from connected display

4. POWER: power indicator [light: power on; dim: power off]
5. +5V DC: connect to 5V interlocking power supply unit

Rear Panel



6. S/PDIF: connect to S/PDIF digital stereo audio speaker
7. Stereo: connect to analog stereo audio speaker
8. DVI OUT: connect to digital DVI display

1. Connect your HDMI source device to the HDMI IN port.
2. Connect your DVI display or projector to the DVI-I OUT port.
3. Connect your S/PDIF AV receiver to the S/PDIF RCA port.
4. Connect your PC speaker to the Stereo 3.5mm earphone jack.
5. Power up the ASP-HTD.

** S/PDIF format is dependent upon the embedded digital audio part in the input HDMI stream. The S/PDIF receiver must be able to recognize the input S/PDIF format. This ASP-HTD only separates the digital audio in HDMI stream, and bypasses this decoded audio to the output.*

** The function of the rotary switch is reserved and please keep the rotary switch at 0.*

EDID Learning

1. Power up the ASP-HTD. Connect DVI display to the DVI OUT.
2. Turn the rotary switch counterclockwise [↺] from 0 to 7.
3. The green LED will flash a few times to indicate the EDID is learned.
4. Turn the rotary switch clockwise [↻] from 7 to 0. DO NOT let the rotary switch arrow pass 6, which will erase the just learned EDID and reset to default EDID.

Notice

1. Analog stereo audio output can merely support 2-channel audio. This version does NOT support 8-channel analog audio applications.
2. S/PDIF audio output supports main 2-channel audio output only.

Limited 3 Year Warranty

Aurora Multimedia Corp. (“Manufacturer”) warrants that this product is free of defects in both materials and workmanship for a period of 3 years as defined herein for parts and labor from date of purchase. Motorized mechanical parts (Hard Drives, DVD, etc), mechanical parts (buttons, doors, etc), remotes and cables are covered for a period of 1 year. Batteries are not covered by this warranty. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with same or similar model) at our option without charge for parts or labor for the specified product warranty period.

This warranty shall not apply if any of the following:

A) The product has been damaged by negligence, accident, lightning, water, act-of-God or mishandling; or,

B) The product has not been operated in accordance with procedures specified in operating instructions: or,

C) The product has been repaired and or altered by other than manufacturer or authorized service center; or,

D) The product's original serial number has been modified or removed: or,

E) External equipment other than supplied by manufacturer, in determination of manufacturer, shall have affected the performance, safety or reliability of the product.

F) Part(s) are no longer available for product.

In the event that the product needs repair or replacement during the specified warranty period, product should be shipped back to Manufacturer at Purchaser's expense. Repaired or replaced product shall be returned to Purchaser by standard shipping methods at Manufacturer's discretion. Express shipping will be at the expense of the Purchaser. If Purchaser resides outside the contiguous US, return shipping shall be at Purchaser's expense.

No other warranty, express or implied other than Manufacturer's shall apply.

Manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction of the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period.

This warranty does not cover damage to the equipment during shipping and Manufacturer assumes no responsibility for such damage.

This product warranty extends to the original purchaser only and will be null and void upon any assignment or transfer.

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